(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 3 March 2005 (03.03.2005)

PCT

(10) International Publication Number WO 2005/018747 A1

- (51) International Patent Classification⁷: A62C 2/08, 31/02, B05B 1/04, A62C 31/22, 27/00, 39/00
- (21) International Application Number:

PCT/FI2004/000487

- (22) International Filing Date: 18 August 2004 (18.08.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20031186

22 August 2003 (22.08.2003) FI

- (71) Applicant (for all designated States except US): BRONTO SKYLIFT OY AB [FI/FI]; Teerivuorenkatu 28, FIN-33300 Tampere (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): PELTOLA, Esa [FI/FI]; Palstatie 14 A, FIN-33430 Vuorentausta (FI). ASUMANIEMI, Mikko [FI/FI]; Runkokatu 45, FIN-33340 Tampere (FI).
- (74) Agent: KOLSTER OY AB; Iso Roobertinkatu 23, P.O. Box 148, FIN-00121 Helsinki (FI).

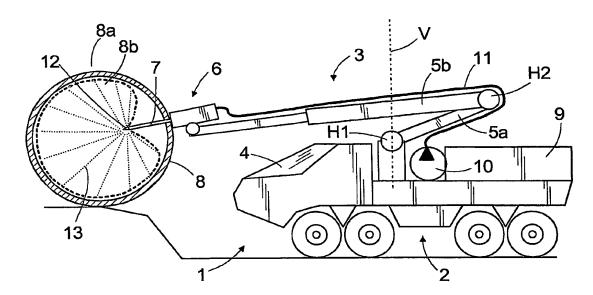
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,

[Continued on next page]

(54) Title: METHOD AND EQUIPMENT FOR FIRE-FIGHTING



(57) Abstract: The invention relates to a method for fire-fighting, and to a rescue boom and a nozzle of a piercing tool. A rescue boom (3) is provided with an elongated piercing tool (7) that can be pushed through a shell (8) of a burning object. A fire extinguishing medium can be conveyed through the piercing tool to a nozzle (12) provided in the piercing tool. The nozzle is provided with orifices (17) arranged such that single jets (20) form a single uniform jet (13) having a flat curtain-like shape.

WO 2005/018747 A1

A 1840 SHINDAN IN BORNE HON BOLH BEND BIN I A NI BOLEH HORI BOLH HOLI BOLH HER BENEN KOOK HER BEN

JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

of inventorship (Rule 4.17(iv)) for US only

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.